



Tri-Service Power Expo

PAC-216/U
[NSN 6130-01-465-2867]

16 JUL 03 1000
Iris
Technology

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PROPRIETARY DATA

Abstract

PAC-216/U - AC Power Solution for SINCGARS

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Iris Technology will present an integrated power solution to the SINCGARS battery problem. This briefing specifically targets the communications and logistics support communities. The PAC-216/U [cataloged by DLA/DSCR NSN 6130-01-465-2867], that was initially fielded with the Marine Corps IIIMEF in 1998, is now entering full-scale production this summer for delivery to all Marine Corps destinations. The Marine Corps, through its Expeditionary Power Systems, has taken a lead role in investigating and fielding this class of Alternate Power Sources. The PAC-216/U completely eliminates dependence upon expensive batteries, both primary and rechargeable, and instead, draws its power from any AC source (domestic, international, and field generators). We present a development history and a list of suggested applications. As an adjunct to the PAC-216/U, we discuss our line of power inverters that have been tested and approved for use in military vehicles and US aircraft (USAF and USN). These inverters provide a reliable source of AC power and attach through a standard twist-lock or NATO SLAVE connection. We discuss cost trades and offer a list of typical applications. The PAC-216/U and our other tactical equipment are available through GSA Contract GS-07F-0131N.



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PROPRIETARY DATA

Iris Technology

Space

Electronics and sensors for space



Power

Military power and industrial controls

Systems

Electro-optical systems design

Weapons

Unique weapons systems elements

CAGE 78535

Supporting DoD
since 1986

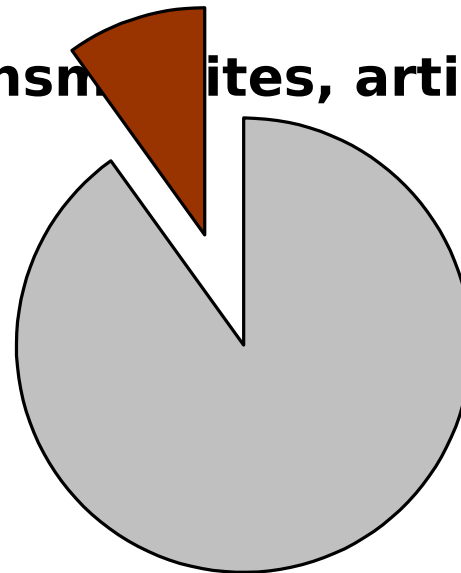


Target Audience

- **Most power is consumed by mobile users**
 - **SINCGARS is the driving power requirement**
- **Many locations have access to prime power**
 - **Line power, mobile generators, vehicles, aircraft**
 - **Command centers, retransmission sites, artillery, air defense**

PAC-216/U
fills this need

*Use prime power
instead of batteries*



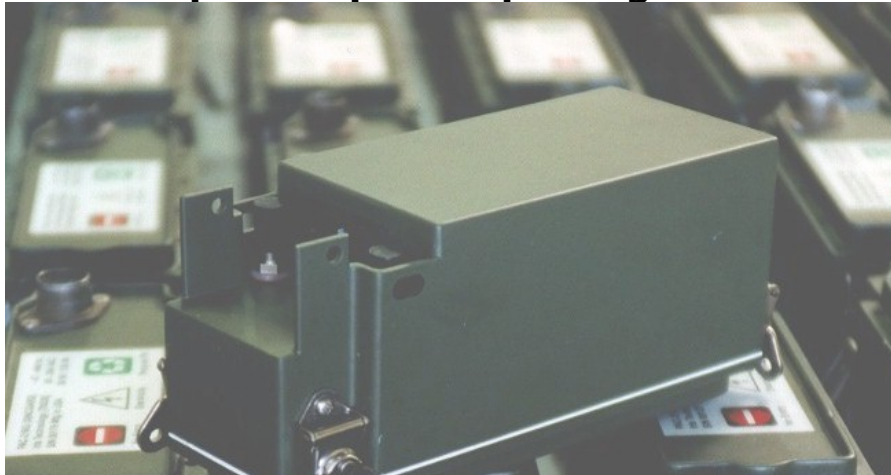
PAC-216/U Application

Problem:

SINCGARS battery use is excessive and is a burden on logistics. Many sites could make use of available AC power but no interface is available.

Solution:

PAC-216/U provides power interface as well as communications I/O in a simple to operate package. The /U version includes



Selected by USMC

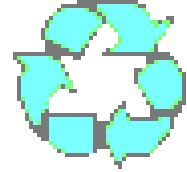
- ***PAC-216/U***
 - Use with RCU or RT
 - Save money v BB-390A/U
 - Save weight v BB-390A/U
 - [NSN 6130-01-465-2867]
- ***Production Programs***
 - USMC M67854-03-F-5030
 - Awarded NOV 02
 - USMC M67400-97-C-0018
 - Awarded SEP 97



PAC-216/U Features

***HV & EMP Clamps
Signal Coupling
Bandpass Filtering***

***High Reliability
Switching Power
Supply***



***(PAC-216/U only)
Sealed Gel Battery
UPS Circuitry***

Comm I/O Binding Posts

***AC Input Receptacle
Allows Stacking***

Built-in-Test Indicator

Protective Tabs



***Shock Hardened
Design
Corrosion Resistant
Non-Corroding Clamps***

***Environmentally
Sealed
Thermal
Management***

***Easy to Use and to
Train***

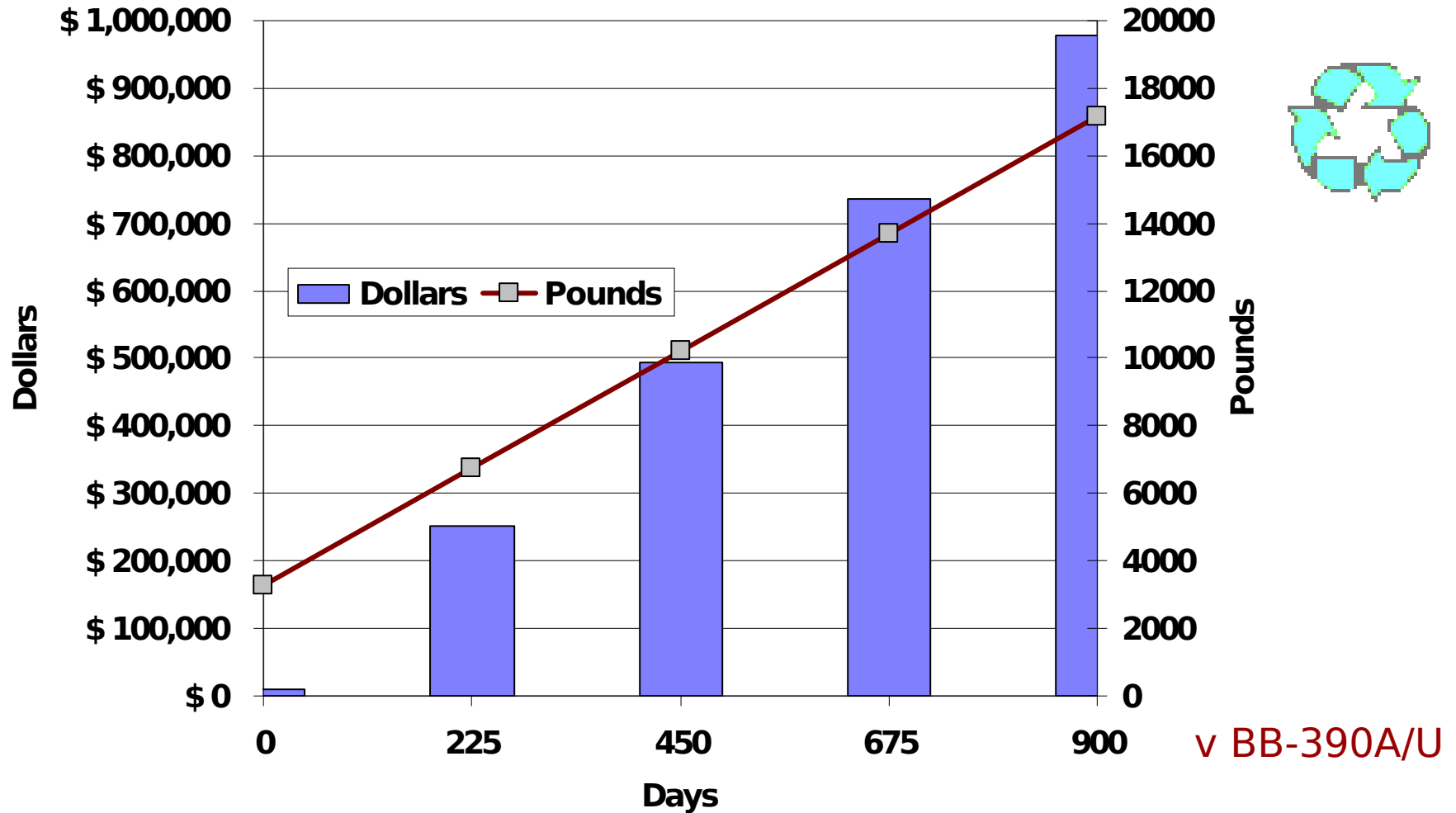
***State Machine Processor
Charging Circuitry and BIT***

J1 RT & RCU Connector

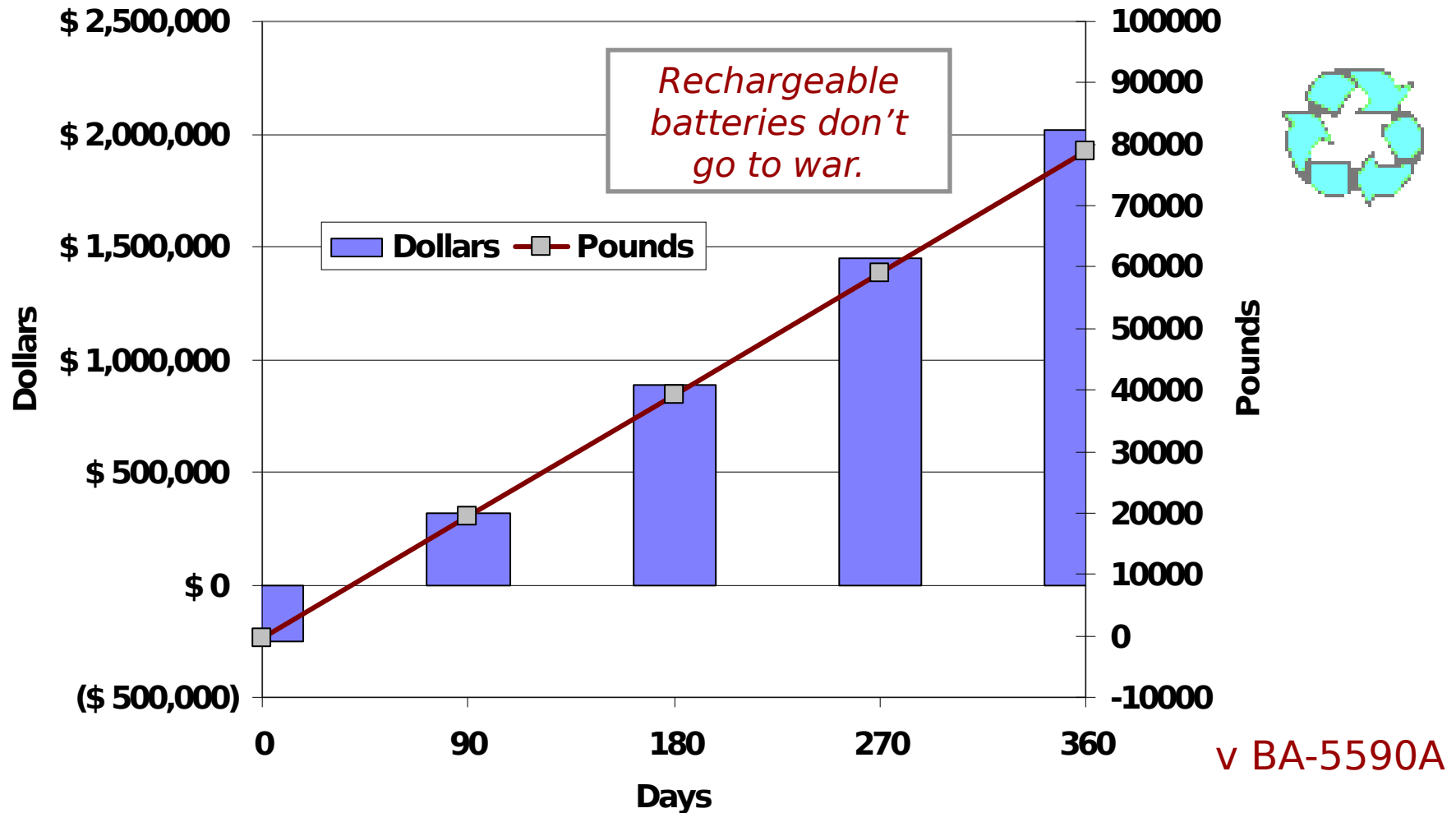
Gasket Mating Surface



Savings @ Qty 100 / Training



Savings @ Qty 100 / Deployment



PAC-216/U Equipment



PAC-216/U
6130-01-465-2867



PAC-216/U and SINCGARS



VB-90 Equipment



NEW ITEM

***VB-90 Adapter for SINCGARS
ASIP Leverages PAC-216/U
Production Design***



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VB-90 and SINCGARS ASIP



VB-90



QP-250 Inverter



Related Equipment

***Power Inverter approved by
USAF and USN (NAVAIR) for
in-flight use.***

**QP-250 Inverter
6130-01-496-6450**



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QP-1800 Inverter System

QP-1800 System
6130-01-496-6456

Related Equipment

***Power Inverter approved by
USMC (SPAWAR) for vehicle
use.***



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In Closing ...

- Buy **now** for sites with available power
- **PAC-216/U [NSN 6130-01-465-2867]**
 - Cheaper than rechargeables
 - Lighter than rechargeables
 - Reduces HAZMAT
 - Demonstrated reliability
 - USMC production program
 - Available on GSA Contract GS-07F-0131N
- **Companion products are available**
 - AC adapters for other radios
 - AC inverters for vehicles and aircraft
- There is a **real** cost of waiting

30 Day Payback
not very complicated

